



Water-Data Report 2008

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°15'19", long 74°44'16" referenced to North American Datum of 1983, Lawrence Township, Mercer County, NJ, Hydrologic Unit 02040105, on Princeton Pike (County Route 583), 340 ft north of Graf Avenue, 450 ft south of Fairfield Avenue, and 2,700 ft upstream from Colonial Lake.

DRAINAGE AREA.--11.7 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-78, 2000, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 11.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pressure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 13...	0945	2.4	.105	.081	760	9.0	77	7.5	414	13.0	6.3	120	32.9
Feb 28...	0915	3.3	.086	.064	764	13.5	98	7.7	667	-5.0	2.1	140	35.1
May 07...	0900	3.2	.118	.092	760	7.1	70	7.4	420	21.0	14.8	130	32.7
Aug 18...	0930	2.0	.138	.101	760	4.4	48	7.2	380	26.5	19.8	110	29.7

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf fixed end pt,						Chlor- ide, water, filtrd, mg/L as CaCO3	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO2	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia	
	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	lab, mg/L as CaCO3	(90410)	(00940)							org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)	
Nov 13...	9.42	3.38	28.0	76	55.6	.20	11.2	30.7	221	236	2	.36	.094		
Feb 28...	11.9	3.00	69.2	67	140	E.10	11.9	28.0	E344	360	1	.22	.010		
May 07...	11.0	3.04	30.1	78	61.4	E.11	8.5	24.4	E221	244	1	.35	.062		
Aug 18...	9.02	3.48	26.1	78	52.4	.14	9.5	22.9	201	224	3	.34	.066		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water filtrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp., water, filtrd, mg/L (49570)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Ortho- phos- phate, water, filtrd, mg/L as P (00671)	Phos- phorus, water, filtrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd, mg/L as P (00665)	Total carbon, suspnd sediment mg/L (00694)	Inor- ganic carbon, suspnd sediment mg/L (00688)	Organic carbon, suspnd sediment mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Arsenic water, filtrd, μg/L (01000)	Arsenic water, unfiltrd μg/L (01002)	
Nov 13...	.82	.08	1.2	1.3	.012	.021	.041	.6	<.04	.6	3.2	--	--	
Feb 28...	.97	.06	1.2	1.2	E.006	.011	.021	.3	<.04	.3	3.3	.36	E.42	
May 07...	.60	.08	.95	1.0	E.010	.019	.047	.5	<.04	.5	3.0	--	--	
Aug 18...	.23	.06	.58	.64	.015	.029	.057	.4	<.04	.4	3.8	.76	.89	

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	Mangan- ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Selen- ium, water, unfltrd recover -able, μg/L (01147)
Nov 13...	--	--	60	--	--	--	--	--	--	--	--	--	--
Feb 28...	88.0	E.03	44	45	.05	E.35	1.8	400	.75	109	<.010	1.7	.20
May 07...	--	--	55	--	--	--	--	--	--	--	--	--	--
Aug 18...	85.8	<.04	57	69	E.01	<.40	2.8	514	.84	104	<.010	1.3	.18

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008

Part 5 of 5

[Remark codes: <, less than;
E, estimated.]

Date	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)
Nov 13...	--	--
Feb 28...	<.02	15.2
May 07...	--	--
Aug 18...	<.02	5.8

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide CIAT, wat flt μg/L (61618)	2-Ethyl -6-methyl-chloro-aniline water, fltrd, μg/L (04040)	3,4-Di-chloro-aniline water, fltrd, μg/L (61620)	3,5-Di-chloro-aniline water, fltrd, μg/L (61625)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61627)	Aceto-chlor, water, fltrd, μg/L (61633)	Ala-chlor, water, fltrd, μg/L (49260)	alpha-Endo-sulfan, water, fltrd, μg/L (46342)	Atra-zine, water, fltrd, μg/L (34362)	Azin-phos-methyl oxon, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
May 07...	<.04	<.006	<.010	E.009	<.010	<.006	<.008	E.009	<.006	<.006	<.006	.008	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, 0.7u GF μg/L (38933)	cis-Per-methrin Chlor-pyrifos water, 0.7u GF μg/L (82687)	cis-Propi-conazole water, 0.7u GF μg/L (79846)	Cyana-zine, water, 0.7u GF μg/L (04041)	Cyflu-thrin, water, 0.7u GF μg/L (61585)	lambda-Cyhalothrin, water, 0.7u GF μg/L (61595)	Cyper-methrin water, 0.7u GF μg/L (61586)	DCPA, water, 0.7u GF μg/L (82682)
May 07...	<.120	<.010	E.009	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	Desulf- inyl- fipro- nil, water, fltrd, μg/L (62170)	Diazi- non, water, fltrd, μg/L (39572)	Dicro- tophos, water, fltrd, μg/L (38454)	Diel- drin, water, fltrd, μg/L (39381)	Dimeth- oate, water, 0.7u GF μg/L (82662)	Disulf- oate, water, 0.7u GF μg/L (61640)	Disul- ton, water, 0.7u GF μg/L (82677)	Endo- sulfan sulfate water, 0.7u GF μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion monoxon water, 0.7u GF μg/L (61644)	Ethion, water, 0.7u GF μg/L (82346)	Etho- prop, water, 0.7u GF μg/L (82672)	Fenami- phos sulfone water, fltrd, μg/L (61645)
May 07...	E.006	<.005	<.08	E.005	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil sulfide amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil sulfone water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
May 07...	<.20	<.03	E.006	E.010	E.010	E.013	<.010	<.015	<.01	<.006	<.020	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- oxon, water, fltrd, μg/L (61664)	Methyl para- thion, water, fltrd, 0.7u GF (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd, 0.7u GF (82671)	Myclo- butanil water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, μg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 07...	<.004	<.01	<.008	.050	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propani, water, fltrd, 0.7u GF (82679)	Propar-gite, water, fltrd, 0.7u GF (82685)	Simazine, water, fltrd, 0.7u GF (04035)	Tebu-thiuron water, fltrd, 0.7u GF (82670)	Teflu-thrin, water, fltrd, 0.7u GF (61606)	Terbufos sulfone water, fltrd, 0.7u GF (61674)	Terbu-fos, water, fltrd, 0.7u GF (82675)	Terbutyl- azine, water, fltrd, 0.7u GF (04022)	Thio-bencarb, water, fltrd, 0.7u GF (82681)	trans- Propi-conazole, water, fltrd, μg/L (79847)
May 07...	.01	<.006	<.004	<.006	<.04	E.007	<.02	<.003	<.04	<.02	<.01	<.010	<.02

01463810 SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tri- flur- alin, phos, water, water, filtrd, μg/L (61610)	Di- chlor- vos, water, filtrd, 0.7u GF μg/L (82661)	Di- chlor- filtrd, μg/L (38775)
May 07...	<.035	<.009	<.01